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09709045 - GAU: 1047

PTO/SB/21 (09-04)


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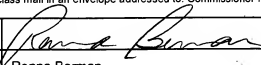
PTO TRANSMITTAL FORM MAY 0 2 2005 (to be used for correspondence after initial filing) Patent & Trademark Office	Application Number	09/709,045
	Filing Date	November 10, 2000
	First Named Inventor	M. Rigdon Lentz
	Art Unit	1647
	Examiner Name	Lorraine Spector
Total Number of Pages in This Submission		Attorney Docket Number LEN 102

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Pabst Patent Group LLP		
Signature			
Printed name	Tiffany B. Salmon		
Date	April 29, 2005	Reg. No.	55,585

CERTIFICATE OF TRANSMISSION/MAILING

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LEN 102 / 077829-00006

Receipt date: 05/04/2005

09709045 GAU: 1647

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Effective on 12/08/2004.
Fee schedule for the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL
For FY 2005

MAI 12 2005

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$): 180.00

Complete if Known

Application Number 09/709,045
Filing Date November 10, 2000
First Named Inventor M. Rigdon Lentz
Examiner Name L. Spector
Art Unit 1647
Attorney Docket No. LEN 102

METHOD OF PAYMENT (check all that apply)

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☒ Deposit Account Deposit Account Number: 50-3129 Deposit Account Name: Pabst Patent Group LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

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FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent	50	25
Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent	200	100
Multiple dependent claims	360	180

Total Claims	Excess Claims	Fee (\$)	Fee Paid (\$)	Multiple Dependent Claims	Fee (\$)	Fee Paid (\$)
14 - 20 or HP =	0	x 0.00	= 0.00			
HP = highest number of total claims paid for, if greater than 20						
Indep. Claims	Excess Claims	Fee (\$)	Fee Paid (\$)			
2 - 3 or HP =	0	x 0.00	= 0.00			
HP = highest number of independent claims paid for, if greater than 3						

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(a).

Total Sheets	Excess Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
- 100 =		/ 50 =	(round up to a whole number) x	

4. OTHER FEE(S)

	Fees Paid (\$)
Non-English Specification, \$130 fee (no small entity discount)	
Other: Information Disclosure Statement	180.00

SUBMITTED BY

Signature S. H. S. Registration No. 55,589 Telephone (404) 879-2153
(Attorney/Agent)

Name (Print/Type) Tiffany B. Salmon Date April 29, 2005

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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LEN 102 / 077829-00006



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: M. Rigdon Lentz

Serial No.: 09/709,045

Art Unit: 1647

Filed: November 10, 2000

Examiner: Lorraine Spector

For: *METHOD AND SYSTEM TO REMOVE CYTOKINE INHIBITOR IN PATIENTS*

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. § 1.56, Applicants submit a Supplemental Information Disclosure Statement, including fifteen (15) pages of Form PTO-1449, and copies of the one hundred and ninety-four (194) documents cited therein.

This Information Disclosure Statement is being filed in accordance with 37 C.F.R. § 1.98. Applicants respectfully request consideration of this Information Disclosure Statement. The Commissioner is authorized to charge \$180.00, the fee set forth under 37 CFR § 1.17(p), to Account No. 50-3129, if necessary. It is believed that no additional fee is required with this submission. However, should an additional fee be required, the Commissioner is hereby authorized to charge any fees to Deposit Account No. 50-3129.

05/03/2005 HDESTA 00000080 503129 09709045
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U.S.S.N.: 09/709,045
Filed: November 10, 2000
SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT

References duplicative of those cited on
the IDS form itself. /CMW/

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Remarks

This statement should not be interpreted as a representation that an exhaustive search has been conducted or that no better art exists. Moreover, Applicants invite the Examiner to make an independent evaluation of the cited art to determine its relevance to the subject matter of the present application. Applicants are of the opinion that their claims patentably distinguish over the art referred to herein, either alone or in combination.

Respectfully submitted,



Tiffany B. Salmon
Reg. No. 55,589

Dated: April 29, 2005

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Application Number	09/709,045
Filing Date	November 10, 2000
First Named Inventor	M. Rigdon Lentz
Group Art Unit	1647
Examiner Name	Lorraine Spector
Attorney Docket Number	LEN 102

Sheet 1 of 15

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First Named Inventor	M. Rigdon Lentz
Group Art Unit	1647
Examiner Name	Lorraine Spector
Attorney Docket Number	LEN 102

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First Named Inventor	M. Rignon Lentz
Group Art Unit	1647
Examiner Name	Lorraine Spector
Attorney Docket Number	LEN 102

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		BLAUER, et al., "Modulation of the antilisterial activity of human blood-derived macrophages by activating and deactivating cytokines" <i>J. Interferon Cytokine Res.</i> 15:105-114 (1995).	
		BOMAN, et al., "Phase I study of recombinant gamma-interferon (rIFN- γ)" <i>Journal of Biological Response Modifiers</i> 7:438-446 (1988).	
		BRUNTSCH, et al., "phase II study of recombinant human interferon- γ in metastatic renal cell carcinoma" <i>Journal of Biological Response Modifiers</i> 9:335-338 (1990).	
		BUKOWSKI, et al., "Phase I trial of continuous infusion of recombinant interleukin-2 and intermittent recombinant interferon- α_{2b} . Clinical effects" <i>Journal of Biological Response Modifiers</i> 9:538-545 (1990).	
		CAULFIELD, et al., "Phase I-1b trial of an anti-G α_3 monoclonal antibody in combination with interferon- α in patients with malignant melanoma" <i>Journal of Biological Response Modifiers</i> 9:319-328 (1990).	
		CHAMBRIER, et al., "Hormonal and metabolic effects of chronic interleukin-2 infusion in cancer patients" <i>Journal of Biological Response Modifiers</i> 9:251-255 (1990).	
		CHOUAIB, et al., "More insights into the complex physiology of TNF" <i>Immunol. Today</i> 12(5):141-145 (1991).	
		COCLET-NININ, et al., "Interferon-beta not only inhibits interleukin-1 β and tumor necrosis factor- α but stimulates interleukin-1 receptor antagonist production in human peripheral blood mononuclear cells" <i>Eur. Cytokine Network</i> 8(4):345-349 (1997).	
		COLMAN, et al., <u>Hemostasis and Thrombosis: Basic Principles and Clinical Practice 2nd. Edition</u> (Colman, et al., eds.) pp. 63-67 J.B. Lippincott: Philadelphia, PA, 1987.	
		COX, et al., "Phase II study of human lymphoblastoid interferon in patients with multiple myeloma" <i>Journal of Biological Response Modifiers</i> 7:318-325 (1988).	
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Application Number	09/709,045
Filing Date	November 10, 2000
First Named Inventor	M. Rigdon Lentz
Group Art Unit	1647
Examiner Name	Lorraine Spector
Attorney Docket Number	LEN 102

Sheet	7	of	15
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		CROGHAN, et al., "A phase I trial of recombinant interferon- α and α -difluoromethylornithine in metastatic melanoma" <i>Journal of Biological Response Modifiers</i> 7:409-415 (1988).	
		D'ANDREA, et al., "Interleukin 10 (IL-10) inhibits human lymphocyte interferon γ production by suppressing natural killer cell stimulatory factor/IL-12 synthesis in accessory cells" <i>J. Exp. Med.</i> 178:1041-1048 (1993).	
		DIMERY, et al., "Recombinant interferon- γ in the treatment of recurrent nasopharyngeal carcinoma" <i>Journal of Biological Response Modifiers</i> 8:221-226 (1989).	
		DINARELLO, "Induction of interleukin-1 and interleukin-1 receptor antagonist" <i>Sem. In Oncol.</i> 24(no. 3, Suppl. 9):81-93 (1997).	
		DUPERE, et al., "Patterns of cytokines released by peripheral blood leukocytes of normal donors and cancer patients during interleukin-2 activation <i>in vitro</i> " <i>Journal of Biological Response Modifiers</i> 9:140-148 (1990).	
		ENGELHARDT, et al., "Biological response to intravenously administered endotoxin in patients with advanced cancer" <i>Journal of Biological Response Modifiers</i> 9:480-491 (1990)	
		ENGELMANN, et al., "Two tumor necrosis factor-binding proteins purified from human urine" <i>J. Biol. Chem.</i> 265(3):1531-1536 (1990).	
		ERIKS AND EMERSON, "Temporal effect of tumor necrosis factor alpha on murine macrophages infected with <i>Mycobacterium avium</i> " <i>Infect. Immun.</i> 65(6):2100-2106 (1997).	
		ETGES AND MULLER, "Progressive disease or protective immunity to <i>Leishmania</i> major infection: the result of a network of stimulatory and inhibitory interactions" <i>J. Mol. Med.</i> 76:372-390 (1998).	
		FAREED, et al., "Novel antigenic markers of human tumor regression" <i>Journal of Biological Response Modifiers</i> 7:11-23 (1988).	
		FAVROT, et al., "Functional and immunophenotypic modifications induced by interleukin-2 did not predict response to therapy in patients with renal cell carcinoma" <i>Journal of Biological Response Modifiers</i> 9:167-177 (1990).	

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Examiner Name	Lorraine Spector
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		FERNANDES AND BALDWIN, "Interleukin-10 downregulates protective immunity to <i>Brucella abortus</i> " <i>Infect. Immun.</i> 63:1130-1133 (1995).	
		FOON, et al., "A prospective randomized trial of $\alpha 2\beta$ -interferon/ γ -interferon or the combination in advanced metastatic renal cell carcinoma" <i>Journal of Biological Response Modifiers</i> 7:540-545 (1988).	
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		GILL, et al., "Interferon-alpha maintenance therapy after cytotoxic chemotherapy for treatment of acquired immunodeficiency syndrome-related kaposi's sarcoma" <i>Journal of Biological Response Modifiers</i> 9:512-516 (1990).	
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		HANDZEL, et al., "Immunomodulation of T cell deficiency in humans by thymic humoral factor: from crude extract to synthetic thymic humoral factor- $\gamma 2$ " <i>Journal of Biological Response Modifiers</i> 9:269-278 (1990).	
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First Named Inventor	M. Rigdon Lentz
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Examiner Name	Lorraine Spector
Attorney Docket Number	LEN 102

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		HERRMANN, et al., "Stimulation of granulopoiesis in patients with malignancy by recombinant human granulocyte-macrophage colony-stimulating factor: Assessment of two routes of administration" <i>Journal of Biological Response Modifiers</i> 9:475-479 (1990).	
		HERTLER, et al., "A phase I study of T101-ricin A chain immunotoxin in refractory chronic lymphocytic leukemia" <i>Journal of Biological Response Modifiers</i> 7:97-113 (1988).	
		HIMMLER, et al., "Molecular cloning and expression of human and rat tumor necrosis factor receptor chain (p60) and its soluble derivative, tumor necrosis factor-binding protein." <i>DNA and Cell Biol.</i> 9(10):705-715 (1990).	
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		KALMANTI, et al., "Serum levels of tumor necrosis factor soluble interleukin 2 receptor as markers of disease activity and prognosis in childhood leukemia and lymphoma" <i>Int. J. Hematol.</i> 57:147-152 (1993).	
		KAUFMANN, et al., "T cells and cytokines in intracellular bacterial infections: experiences with <i>Mycobacterium bovis</i> BCG" <i>Ciba Fdn. Symp.</i> 195:123-132 (1995).	
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		KESSLER, "Adsorptive plasma treatment: Optimization of extracorporeal devices and systems" <i>Blood Purification</i> 11:150-157 (1993).	
		KHAZAEI, et al., "Initial evaluation of a human immunoglobulin M monoclonal antibody (HA-1A) in humans" <i>Journal of Biological Response Modifiers</i> 9:178-184 (1990).	

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		KOLITZ, et al., "Phase I trial of recombinant interleukin-2 and cyclophosphamide: Augmentation of cellular immunity and T-cell mitogenic response with long term administration of rIL-2" <i>Journal of Biological Response Modifiers</i> 7:457-472 (1988).	
		KRIGEL, et al., "Treatment of epidemic kaposi's sarcoma with a combination of interferon-alpha 2b and etoposide" <i>Journal of Biological Response Modifiers</i> 7:359-364 (1988).	
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		LENTZ, et al., "Apheresis of low molecular weight protein fraction and the onset of labor" <i>Journal of Clinical Apheresis</i> 5:62-67 (1990).	
		LENTZ, "The phylogeny of oncology" <i>Mol. Biother.</i> 2:137-144 (1990).	
		LETTERIO AND ROBERTS, "Regulation of immune responses by TGF-β" <i>Ann. Rev. Immuno.</i> 16:137-161 (1998).	
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		LUCEY, et al., "Type 1 and type 2 cytokine dysregulation in human infectious, neoplastic, and inflammatory diseases" <i>Clin. Micro. Rev.</i> 9(4):532-562 (1996).	
		MAAS, et al., "Interleukin-2 in cancer treatment: disappointing or (still) promising? A review" <i>Cancer Immunol. Immunother.</i> 36:141-148 (1993).	
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Filing Date	November 10, 2000
First Named Inventor	M. Rigdon Lentz
Group Art Unit	1647
Examiner Name	Lorraine Spector
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		MACA, "Inhibition of the growth of lewis lung carcinoma by indomethacin in conventional, nude, and beige mice" <i>Journal of Biological Response Modifiers</i> 9:568-580 (1990).	
		MARSHALL, et al., "Effects of coumarin (12-benzopyrone) and cimetidine on peripheral blood lymphocytes, natural killer cells, and monocytes in patients with advanced malignancies" <i>Journal of Biological Response Modifiers</i> 8:62-69 (1989).	
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		PAIS, et al., "Pharmacokinetics of recombinant interleukin-2 in children with malignancies: A pediatric oncology group study" <i>Journal of Biological Response Modifiers</i> 9:517-521 (1990).	
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		PAOLOZZI, et al., "Phase I trial of recombinant interleukin-2 and recombinant β -interferon in refractory neoplastic diseases" <i>Journal of Biological Response Modifiers</i> 8:122-139 (1989).	
		PEREZ, et al., "A phase I trial of recombinant human gamma interferon (IFN- γ_{AA}) in patients with advanced malignancy" <i>Journal of Biological Response Modifiers</i> 7:309-317 (1988).	
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		SARNA, et al., "Systemic administration of recombinant methionyl human interleukin-2 (Ala 125) to cancer patients: Clinical results" <i>Journal of Biological Response Modifiers</i> 8:16-24 (1989).	
		SARNA, et al., "A pilot study of intralymphatic interleukin-2. II. Clinical and biological effects" <i>Journal of Biological Response Modifiers</i> 9:81-86 (1990).	
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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number	09/709,045
Filing Date	November 10, 2000
First Named Inventor	M. Rigdon Lentz
Group Art Unit	1647
Examiner Name	Lorraine Spector
Attorney Docket Number	LEN 102

Sheet 13 of 15

OTHER ART - NON PATENT LITERATURE DOCUMENTS

Examiner's Initials*	Cite No.†	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T‡
		SATO, et al., "induction of bone formation in an adenoid cystic carcinoma of the maxillary sinus by adoptive immunotherapy involving intra-arterial injection of lymphokine-activated killer cells and recombinant interleukin-2 in combination with radiotherapy" <i>Journal of Biological Response Modifiers</i> 9:329-334 (1990).	
		SCHAADT, et al., "Phase II study of recombinant human tumor necrosis factor in colorectal carcinoma" <i>Journal of Biological Response Modifiers</i> 9:247-250 (1990).	
		SCHALL, et al., "molecular cloning and expression of a receptor for human tumor necrosis factor" <i>Cell</i> 61:361-370 (1990).	
		SCHEITHAUER, et al., "Combined α -2C-interferon/VMCP polychemotherapy versus VMCP polychemotherapy a induction therapy in multiple myeloma: A prospective randomized trial" <i>Journal of Biological Response Modifiers</i> 8:109-115 (1989).	
		SCHILLER, et al., "A phase I trial of interferon- α -2a plus cyclophosphamide, vincristine, prednisone, and doxorubicin" <i>Journal of Biological Response Modifiers</i> 8:252-261 (1989).	
		SECKINGER, et al., "Purification and biologic characterization of a specific tumor necrosis factor α inhibitor" <i>J. Biol. Chem.</i> 264(20):11966-11973 (1989).	
		SEIGLER, et al., "Melanoma patient antibody responses to melanoma tumor-associated antigens defined by murine monoclonal antibodies" <i>Journal of Biological Response Modifiers</i> 8:37-52 (1989).	
		SHAU, et al., "A pilot study of intralymphatic interleukin-2. I. Cytotoxic and surface marker changes of peripheral blood lymphocytes" <i>Journal of Biological Response Modifiers</i> 9:71-80 (1990).	
		SIDHU AND BOLLON, "Tumor necrosis factor activities and cancer therapy - A perspective" <i>Pharmacol. Ther.</i> 57:79-128 (1993).	
		SIELING, et al., "Immunosuppressive roles for IL-10 and IL-4 in human infection" <i>J. Immunol.</i> 150(12):5501-5510 (1993).	
		SPRIGGS, "One step ahead of the game: Viral immunomodulatory molecules" <i>Ann. Rev. Immunol.</i> 14:101-130 (1996).	

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		STEGER, et al., "Long-term remission in a patient with erythroleukemia following interferon- α treatment" <i>Journal of Biological Response Modifiers</i> 8:351-354 (1989).	
		STEINMETZ, et al., "Phase I study of 24-hour continuous intravenous infusion of recombinant human tumor necrosis factor" <i>Journal of Biological Response Modifiers</i> 7:417-423 (1988).	
		SZOL, et al., "A phase I study of high-dose interleukin-2 in combination with interferon α_{2b} " <i>Journal of Biological Response Modifiers</i> 9:529-537 (1990).	
		TRIGG, et al., "Interferon therapy for lymphoproliferative disorders developing in two children following bone marrow transplants" <i>Journal of Biological Response Modifiers</i> 8:603-613 (1989).	
		TRINCHIERI, et al., "Cytokine cross-talk between phagocytic cells and lymphocytes: Relevance for differentiation/Activation of phagocytic cells and regulation of adaptive immunity" <i>J. Cell. Biochem.</i> 53:301-308 (1993).	
		TRUMP, et al., "Interferon- α -n1 and continuous infusion vinblastine for treatment of advanced renal cell carcinoma" <i>Journal of Biological Response Modifiers</i> 9:108-111 (1990).	
		UMIEL, et al., "Recombinant interleukin-2-activated intracavitary lymphocytes: Phenotypic characteristics and effector function" <i>Journal of Biological Response Modifiers</i> 8:409-421 (1989).	
		VON HOFF, et al., "Phase II evaluation of recombinant γ -interferon in patients with advanced pancreatic carcinoma: A southwest oncology group study" <i>Journal of Biological Response Modifiers</i> 9:584-587 (1990).	
		WALSH, et al., "Phase I study of the combination of alpha-2 interferon and cisplatin" <i>Journal of Biological Response Modifiers</i> 8:11-15 (1989).	
		WEIL-HILLMAN, et al., "Transient decrease in IL-2 responsive lymphocytes 24 hours after initiation of continuous IL-2 infusion in cancer patients" <i>Journal of Biological Response Modifiers</i> 7:424-437 (1988).	

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